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(54) Title: PROTEIN BIOMARKERS THAT DISTINGUISH PROSTATE CANCER FROM NON-MALIGNANT CELLS

(57) Abstract: This invention provides organic biomolecule markers (e.g., proteins) useful for differentiating prostate cancer, prostate intraepithelial neoplasia or benign prostate hyperplasia, from a negative diagnosis (i.e. normal and benign prostate epithelial cells).



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/05042

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/00; G01N 33/48 C07K 14/00

US CL : 435/4; 436/64; 530/300, 350

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/4; 436/64; 530/300, 350

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Medline, Biosis, Scisearch, Cancerlit, Lifesci, Biotechds, Caplus, PCTfull, USpatfull, Europatfull on STN.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WRIGHT et al. Proteinchip surface enhanced laser desorption/ionization (SELDI) mass spectrometry: a novel protein biochip technology for detection of prostate cancer biomarkers in complex protein mixtures. Prostate Cancer and Prostatic Diseases. March 1999, Vol.2, No. 5-6, pages 264-276, especially page 269, Figure 3A.	1-13, 24-46
X	CAZARES et al. Discovery of Prostate Cancer Biomarkers from Laser Capture Microdissected (LCM) Cells Using Innovative Proteinchip SELDI Mass Spectroscopy.	42-44
Y	Proceedings of the American Association for Cancer Research. March 2000, Vol. 41, page 851, abstract #5407.	1-41, 45, 46
A	SRINIVAS et al. Proteomics in EARLY Detection of Cancer. Clinical Chemistry. October 2001, Vol. 47, No. 10, pages 1901-1911.	1-46.
A	ADAM et al. Proteomic approaches to biomarker discovery in prostate and bladder cancers. Proteomics. October 2001, Vol. 1, pages 1264-1270.	1-46
A	XIAO et al. Generation of a Baculovirus Recombinant Prostate-Specific Membrane Antigen and Its Use in the Development of a Novel Protein Chip Quantitative Immunoassay. Protein Expression and Purification. June 2000, Vol. 19, pages 12-21.	1-46

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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